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6001 Chemical Abstracts

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108: 209171z Lightweight cement products with improved freeze resistance. Oota, Mamoru; Akasaka, Tamotsu; Omori, Yasuichi (Matsushita Electric Works, Ltd.) Jpn. Kokai Tokkyo Koho JP 63 30,381 [88 30,381] (CL C04B38/08), 09 Feb 1988, Appl. 86/170,648, 18 Jul 1986; 8 pp. Lightwt. cement products having high freeze resistance are manufd. by mixing cement with aggregate, reinforcing fibers, and polyvinylidene chloride hollow foams of diam. 1-100 μ (foaming rate 20-100 times), extruding, and curing. Thus, a mixt. contg. cement 50, SiO₂ powder 37.1, asbestos 6, polypropylene fibers (10 mm long) 0.5, cellulose pulp 5, methylcellulose 0.8, and polyvinylidene chloride foams (foaming rate 60 times, diam. 40 μ) 0.6 wt. part was extruded, cured 12 h at 70°, and autoclaved 10 h at 6 atm to give a lightwt. cement product having d. 0.91, bending strength 110 kg/cm², and high freeze resistance.